NIDEK

IOL-ST Print Manager

INSTALLATION MANUAL

NIDEK

Original instructions

Eye & Health Care
NIDEK CO., LTD.

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CAUTION

The contained IOL-ST Print Manager software (“Software”) and related explanatory written materials may be used only when you agree with the “SOFTWARE LICENSE AGREEMENT” below. Before unpacking the software package or using the Software, thoroughly read “SOFTWARE LICENSE AGREEMENT”.

Software License Agreement

NIDEK CO., LTD. (“Nidek”) grants to Customer (“Customer”) a license to use IOL-ST Print Manager (“Software”) and accompanying documentation (“Documentation”) according to the terms and conditions of this Software License Agreement (“Agreement”). By installing the Software, the Customer agrees to be bound by all the terms and conditions of the Agreement.

1. COPYRIGHT

 Nidek holds the copyright of the Software.

2. LICENSE GRANT

 NIDEK hereby grants to Customer a non-exclusive, non-transferable license to use the Software on a single computer.

3. OTHER RESTRICTIONS

 (1) Customers shall not license or sublicense the Software, or transfer or convey the Software or any right in the Software to the third party.

 (2) Customer shall agree not to modify, reverse engineer, disassemble, or decompile the Software, or any portion thereof. Customer shall further agree not to request the third party to actions specifically set forth herein.

4. SOFTWARE VERSION

 The Software shall be updated at Nidek's own discretion from time to time without prior notice to the Customer. The Customer may receive update version of the Software by making payment of the fees specified separately to Nidek. Updated version Software supply will be limited to the Customers who agreed to the terms and conditions of the Agreement.

5. LIMITED WARRANTY

 Nidek warrants that for the Customer's benefit alone, for ninety (90) days from the purchase of the Software, the Software Media ("Media") will be free of defects in material and workmanship. In the event of any defect in the Media within ninety (90) days from the purchase of the Software, upon return of the original Media by the Customer to Nidek, Nidek shall ship a new copy of the Media to the Customer.

6. Exceptions to Warranties; Disclaimers

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(2) IN NO EVENT SHALL NIDEK BE LIABLE FOR ANY LOSS-OF-PROFIT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THE SOFTWARE OR INABILITY TO USE THE SOFTWARE EVEN IF NIDEK OR AN AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL NIDEK BE LIABLE FOR ANY CONFLICTS BETWEEN CUSTOMER AND THIRD PARTY ARISING OUT OF THE USE OF THE SOFTWARE.

7. TERMS OF AGREEMENT

The Agreement becomes effective when the Customer receives the Software and agreed to the terms and conditions of the Agreement until terminated in accordance with the terms and conditions specified in the following provision.

8. TERMINATION

The Customer may terminate the Agreement at anytime by providing 30-day prior written notification to Nidek. The Agreement may be terminated also if the Customer fails to comply with any terms and conditions of this Agreement. In such an event, the Customer agrees to destroy and erase all copies of the Software and Documentation, and Nidek will be entitled to all remedies in accordance with applicable law. The purchase price will not be refunded in any event of the termination.

9. SEVERABILITY

If any provision(s) of the Agreement is found to be void or unenforceable by applicable law, such provision(s) will be deleted automatically and the remaining provisions of the Agreement shall remain in full force and effect.

10. GOVERNING LAW

This Agreement shall be construed and enforced in accordance with the laws of Japan, regardless of the locations of use of the Software. In the event a dispute shall arise between the parties to this Agreement, Nagoya district court shall be the sole and exclusive jurisdiction court for the first trial.

11. MISCELLANEOUS

This Agreement is the entire agreement between the parties and supersedes any other communications or advertising with regard to the Software and Documentation.

NIDEK CO., LTD.
34-14 Maehama, Hiroishi-cho,
Gamagori, Aichi 443-0038 Japan,

* If you have any questions about this Agreement, contact NIDEK.

Use this software properly and safely.

⚠ **BEFORE USE OR MAINTENANCE, READ THIS MANUAL.**

This manual contains the installation procedures of the NIDEK IOL-ST Print Manager.

If you encounter any problems or have questions about the software, please contact your authorized distributor.

Safety precautions

In this manual, a Signal Word is used to designate the degree or level of safety alerting.

The def-inition is as follows:

⚠ **CAUTION** • Indicates a potentially hazardous situation which may result in bodily injury or damage to the devices.

Even situations that are labeled "⚠ CAUTION" may result in serious injury under certain conditions. Safety precautions must be observed strictly at all times.

Handling Precautions

Before Use

⚠ **CAUTION**

- **Install the software in an environment where the conditions shown below are maintained. These conditions must also be maintained during use.**

 Use conditions* Temperature: 10 to 35ºC(50 to 95ºF)
 Humidity: 30 to 90%
 Atmospheric pressure: 800 to 1060 hPa
 No large amount of dust is contained in the air.
 A place with little light interference
 A place free from vibration or impact
 * All in compliance with the computer specifications

- **Thoroughly understand the safety precautions and operating procedures prior to operation of the software.**

 If the software is used for other than its intended purpose as described in this manual, unexpected malfunction or adverse event may occur.

During Use

⚠ **CAUTION**

- **Connect cables to the corresponding interface connectors securely while paying attention to the orientation of the cable connector.**

 Data will not be transmitted properly.

- **Set DPI setting of the display to "Normal size (96DPI)".**

 If any other settings are selected, the IOL-ST Print Manager screen may be displayed incorrectly such as buttons being displaced or windows being cut off.

- **Thoroughly read the manuals attached to the computer or Windows and observe the following general precautions:**
 - Do not use the mouse or keyboard while the pointer () is changed to an hourglass (). Using them while the pointer is an hourglass may result in malfunction or computer hang-up.
 - If multiple windows are displayed, only the topmost window can be operated. Other windows at the back cannot be operated even by clicking them.

- **Indications on the display may not be displayed properly depending on the compatibility between the computer and the IOL-ST Print Manager software.**

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1. BEFORE USE

1.1 Outline of IOL-ST Print Manager

Installing the software to a computer connected with the AL-Scan or CEM-530 over a LAN enables the AL-Scan or CEM-530 outputs data in JPEG format that can be printed as a Report (Print function using an external printer).

Note

- To print out the data output from the AL-Scan or CEM-530 in JPEG format as a Report, a shared folder needs to be created.
- IOL-ST Print Manager starts up automatically at Windows system startup and monitors the specified shared folders. Activating and exiting the software is unnecessary.
- The IOL-ST Print Manager is also equipped with the OPD Database Save function. The OPD Database Save function can be used only when the IOL-ST Print Manager is used with the NIDEK REFRACTIVE POWER/CORNEAL ANALYZER OPD-SCAN III and IOL-Station.

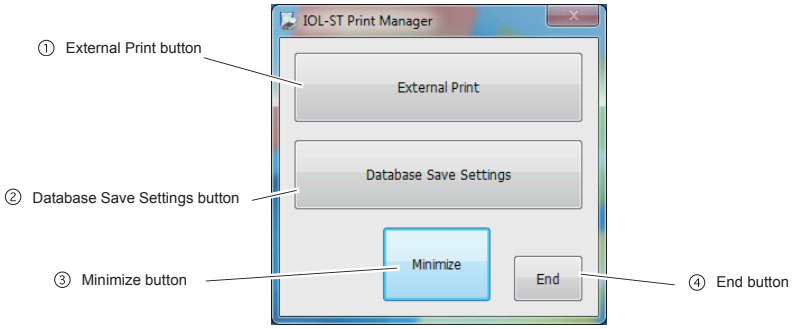
* The screens shown in the manual may differ from the actual ones depending on the OS of the computer.

1.2 Screen Description

This is the menu screen of the IOL-ST Print Manager. This screen is displayed by double-clicking the icon in the task tray at the bottom right of the Windows screen.

Note

- If the icon is not displayed in the task tray, click the “Show hidden icons” button (“<“or “∆”) to display the icon .



①External Print button

Used to display the External Print window.

The print settings for JPEG data output from the AL-Scan or CEM-530 are performed in the External Print window.

②Database Save Settings button*1

Used to open the OPD Database Save Settings window.

The settings to save the measurement data of the AL-Scan and CEM-530 to the database used for the IOL station are performed in the OPD Database Save Settings window.

③Minimize button

Used to minimize the IOL-ST Print Manager screen to the icon on the task tray.

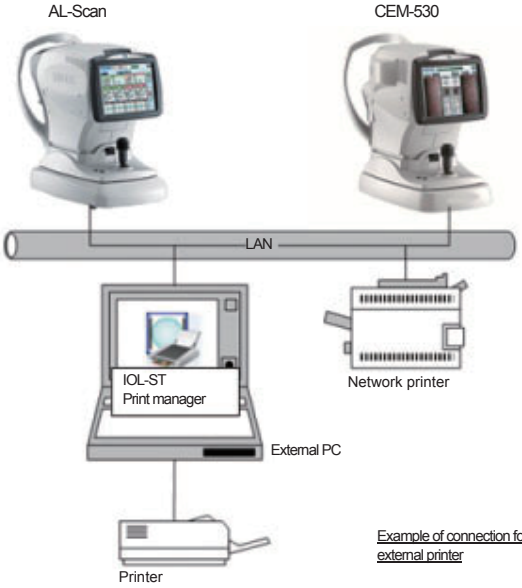
④End button

Used to close the IOL-ST Print Manager.

***1. The use of the Database Save Settings button is not described in this manual.**

1.3 Print function using external printer

The AL-Scan and CEM-530 output measurement results in JPEG format which can be printed as a report on standard copy paper (A4 size). The function prints out the JPEG data from a shared folder using an external printer.



Example of connection for the print function using external printer

(1) IOL-ST Print Manager starts up automatically at Windows system startup and monitors the shared folder where the print data is stored.

(2) JPEG data to be printed out is output from the AL-Scan or CEM-530 to the print data shared folder.

(3) IOL-ST Print Manager transfers the JPEG data stored in the print data shared folder to the work folder and prints out the JPEG data stored in the work folder using an external printer. After printing is complete, the JPEG data is deleted from the work folder.

Note

- To use the print function using an external printer, IOL-ST Print Manager must be installed on a PC that can perform printing using an external printer.
- Do not delete or change the name of the print data shared folder.
 Malfunction of the IOL-ST Print Manager may result.
- The files other than JPEG data remain in the print data shared folder depending on the settings of the AL-Scan or CEM-530.
 If there are more than 10 files in the print data shared folder, pressing the External Print button displays a message and opens the Windows Explorer. Delete any unnecessary files.

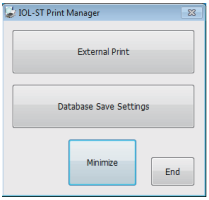
1.3.1 Print procedure

The print procedure differs depending on the print mode. The factory setting is Sequential Print mode.

Sequential Print mode	Sequential Print is selected in the Print Mode field of the External Print window. When JPEG data is saved to the print data shared folder, the JPEG data is automatically transferred to the work folder and printed out. After printing is complete, the JPEG data is deleted.
Batch Print mode	Batch Print is selected in the Print Mode field of the External Print window. When JPEG data is saved to the shared folders for print data, the JPEG data is automatically stored in the work folder. To print out the JPEG data, follow the procedure below.

● Print procedure for Batch Print mode

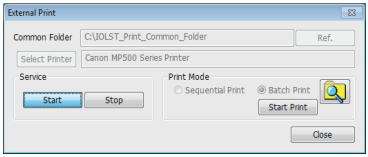
1) Double-click the icon in the task tray at the bottom right of the Windows screen to display the IOL-ST Print Manager screen.



When the icon is not displayed in the task tray, see page 2.

2) Click the External Print button to display the External Print window.

3) Clicking the Start Print button in the Print Mode field prints out the JPEG data in the work folder.

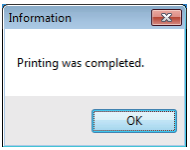


After the JPEG data is printed, it is deleted from the work folder.

The Start and buttons are enabled only when JPEG data is stored in the work folder.

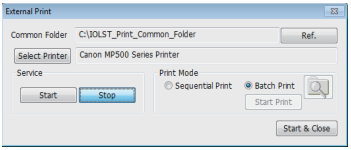
Clicking the button before the Start button opens the work folder. Any unnecessary JPEG data can be deleted.

4) When the message “Printing was completed” is displayed, click the OK button.



5) Click the Start & Close button to close the External Print window.

6) Click the Minimize button to close the IOL-ST Print Manager screen.



Note

- Should a printer error such as running out of paper or ink occur, do not cancel printing. Supply paper or ink, or otherwise correct the error and continue printing.

 Some printers cannot distinguish between cancelling and completing print jobs, and delete the JPEG data sent from the AL-Scan and CEM-530.

2. Installation

2.1 Installation of IOL-ST Print Manager

Note • Be sure to login as the Administrator to perform this procedure.

2.1.1 Required items

- PC on which the IOL-ST Print Manager software is to be installed
- IOL Print Manager installation disc

2.1.2 Required hardware and software

A PC that satisfies the following condition is required to install and use IOL-ST Print Manager.

OS: Microsoft Microsoft Windows XP SP3 32bit English version[*1]
Microsoft Windows Vista SP2 32bit English version
Microsoft Windows 7 SP1 32 bit / 64 bit English version

Note • The warranty does not apply for operation on any OS other than those listed above.

LAN port: 1 port or more

Disk drive: Internal or external CD-ROM drive

Other: When printing out a report, be sure that a printer is connected to the PC or the network printer (excluding shared printers) driver is installed. Be sure that printing can be performed.

***1. Windows is a registered trademark of Microsoft Corporation in the United States**

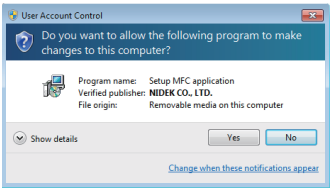
2.1.3 Installation of IOL-ST Print Manager

1 Turn on power to the computer.

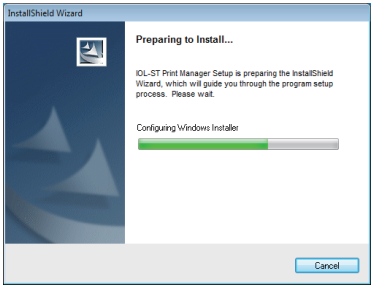
2 Insert the IOL-ST Print Manager installation disc into the CD-ROM drive of the computer.

3 Open the folder in the installation disc, then and double-click the Setup icon in the IOL-ST Print Manager Setup folder.

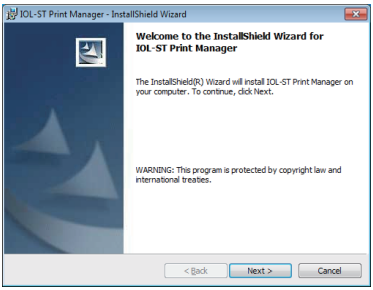
For Windows Vista or Windows 7, the User Account Control screen appears. Click “Allow” or “Yes” to proceed.



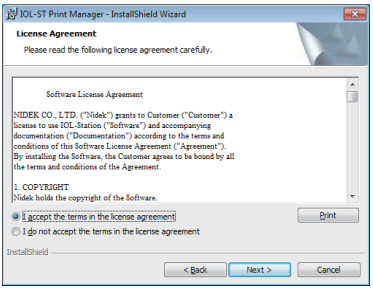
User account control screen for Windows 7



4 When the IOL-ST Print Manager setup window shown to the right is displayed, click the Next button.

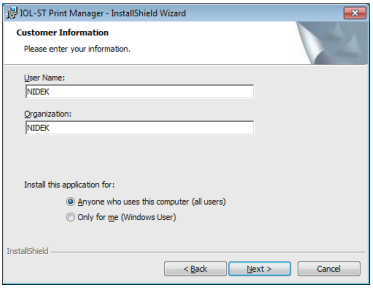


5 When the License Agreement screen appears, read the contents, and check the "I accept the terms in the license agreement" box.



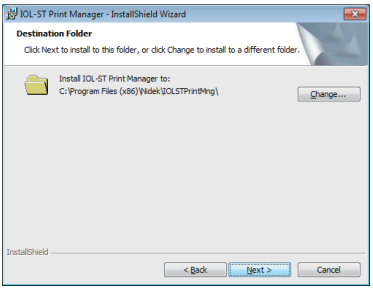
6 Click the Next button.

7 When the Customer Information window is displayed, input the User Name and Organization and click the Next button.

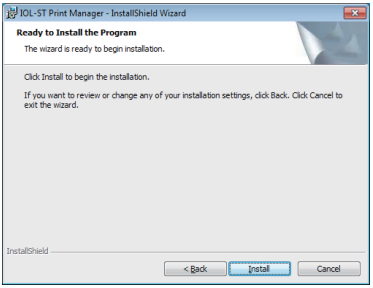


8 When the Destination Folder window for specifying the installation folder appears, confirm the installation destination and click the Next button.

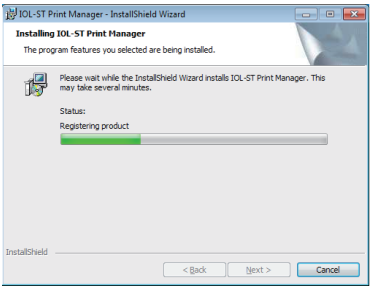
To change the installation destination, click the Change button and specify the desired destination.



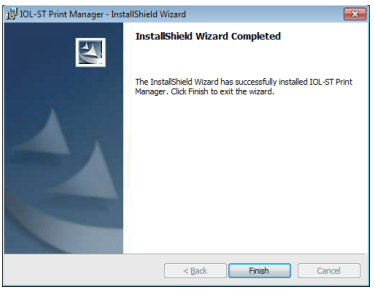
9 When the "Ready to Install the Program" screen shown to the right is displayed, click the Install button.



Installation starts.



10 When the installation of IOL-ST Print Manager is complete, the screen shown to the right is displayed. Click the Finish button.



2.2 Uninstallation of IOL-ST Print Manager

When the IOL-ST Print Manager software is no longer in use, uninstall the IOL-ST Print Manager by using “Program and Features” (Windows Vista and 7) or “Add/Remove Programs” (Windows XP).

3. PC ENVIRONMENT SETTING

3.1 Shared Folder Creation

Create separate shared folder for print data to receive and store the data from the AL-Scan or CEM-530.

- When importing JPEG data for printing from both AL-Scan and CEM-530, do not create separate shared folders for them. Import the JPEG data from the AL-Scan and CEM-530 to the same shared folder.

The following example is the procedure to create the shared folder, “PrintData”, as the shared folder.

1 Create a new folder and change the name to “PrintData”.

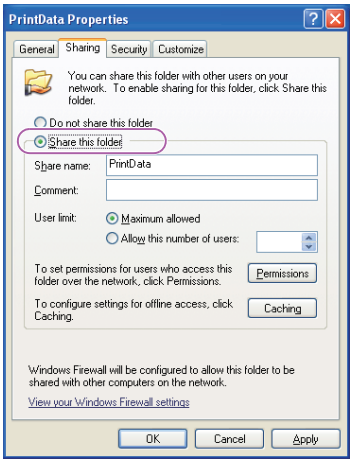
Note

- A maximum of 17 one-byte characters can be input as a folder name.
 If the folder name contains 18 one-byte characters or more, the data exchange with the AL-Scan or CEM-530 is not possible.
- Do not create the shared folder in an external storage media such as an external hard disk drive

2 Right click the “PrintData” and select Properties from the menu.

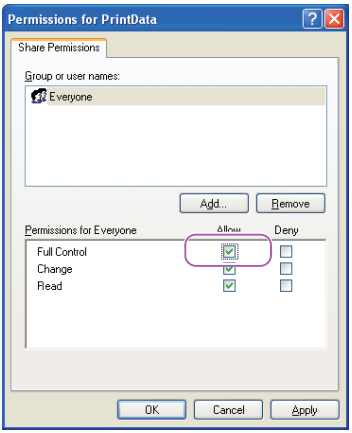
3 Click the “Share this folder” button in the Sharing tab.

* The image shown to the right is for Windows XP.



4 Click the Permissions button to display the "Permissions for PrintData" dialog box. Select the Allow box for Fill Control in the Permissions for Everyone field.

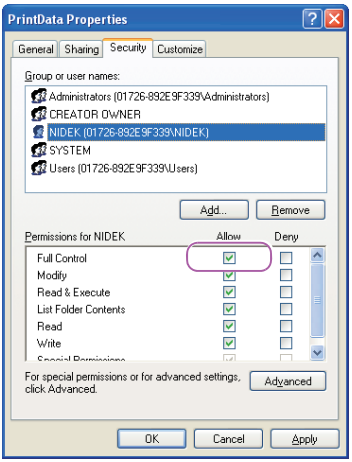
5 Click the OK button and return to the PrintData Properties dialog box.



6 Set the permissions for login user name to Full Control in the Security tab.

7 Click the OK button and close the "Permissions for PrintData" dialog box.

A shared folder is created.



8 Register the created shared folder for print data to the AL-Scan and CEM-530 and specify items to be output to the shared folders.

Refer to the AL-Scan Operator's Manual "3.10.1 LAN connection settings" and "3.1.8 Network USB tab".

Refer to the CEM-530 Operator's Manual "3.5.1 LAN setting" and "3.6.4 Network parameter".

Note

- Set the AL-Scan or CEM-530 so that only a report is output to the print data shared folder.
 When the setting is specified to output the data, unnecessary data may be printed out.

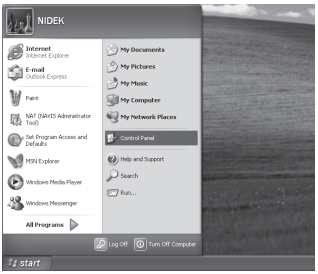
3.2 Network Setting (Windows XP)

3.2.1 Network setting (Windows XP)

Set the IP address of the computer according to the procedure below.

1 Click “Start” and “Control Panel”.

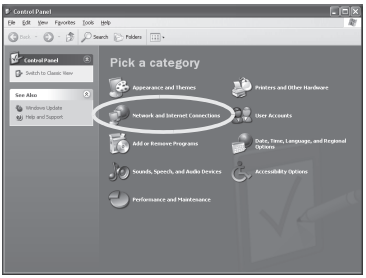
The Control Panel window appears.



2 Click “Network and Internet Connections”.

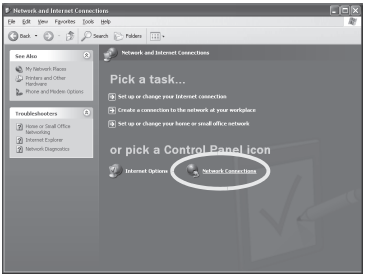
The “Network and Internet Connections” window appears.

If “Network Connections” window appears instead of “Network and Internet Connections”, proceed to the next step.



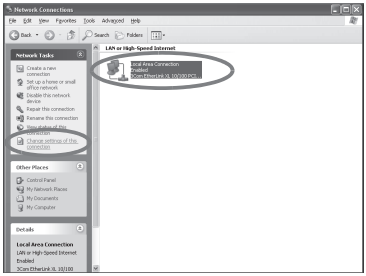
3 Click “Network Connections”.

The Network Connections window appears.



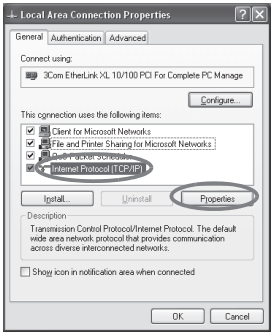
4 Select “Local Area Connection Properties”, then click “Change Settings of this Connection” under “Network Tasks”.

The Local Area Connection Properties dialog box appears.



5 Select “Internet Protocol (TCP/IP)”, then click the Properties button.

The Internet Protocol (TCP/IP) Properties dialog box appears.

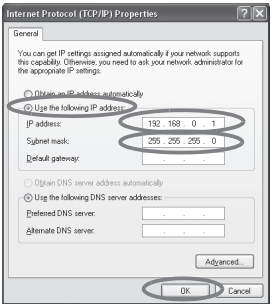


6 Select “Use the following IP address”.

7 In the IP address box, input “192.168.0.xxx”.

In xxx, enter any number from 1 to 254 that is not being used for the device to be connected.

8 Input “255.255.255.0” in the Subnet Mask box.

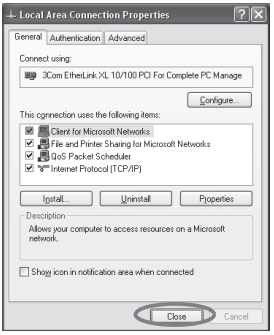


9 Click the OK button.

The “Local Area Connection Properties” dialog box appears.

10 Click the OK button.

11 Close the Network Connections window.

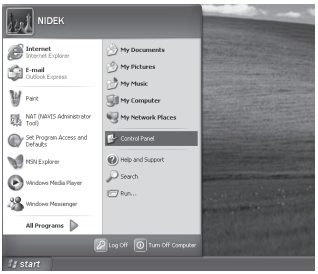


3.2.2 Computer name and workgroup setting (Windows XP)

Set the workgroup of the computer according to the procedure below.

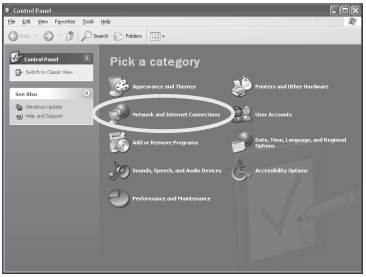
1 When the desktop is displayed, click “Start” and “Control Panel”.

The Control Panel window appears.



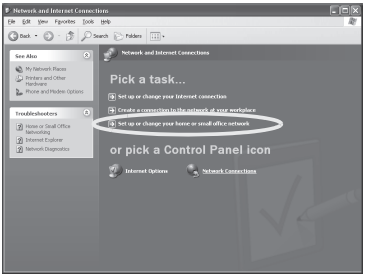
2 Click “Network connections” or “Network and Internet connections”.

The “Network connections” window or “Network and Internet connections” window appears.



3 Click “Setup up or change your home or small office network” under “Network Task” or “Pick a task...”.

The Network Setup Wizard starts.



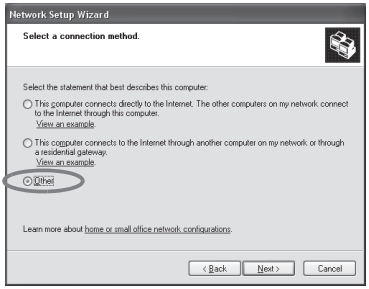
4 Click the Next button.



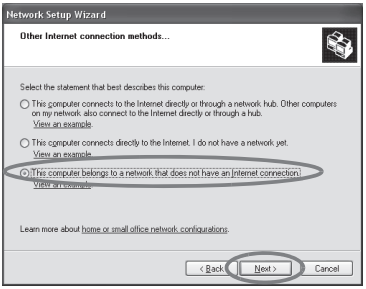
5 Click the Next button.



6 Select “Other”, then click the Next button.



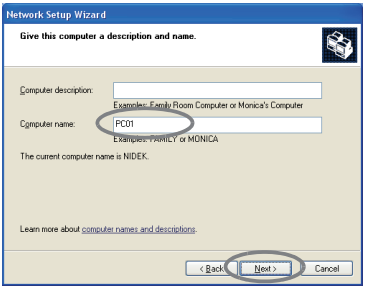
7 Select “This computer belongs to a network that does not have an Internet connection.”, then click the Next button.



8 Confirm that the computer name has been input, then click the Next button.

If the computer name has not been input, input “PC01” (or the desired name).

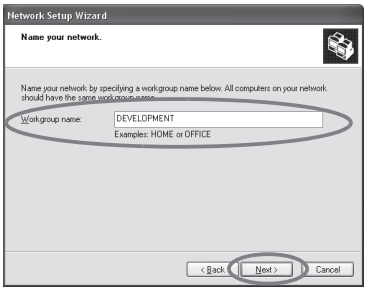
If the same computer name is used for another computer, change the computer name.



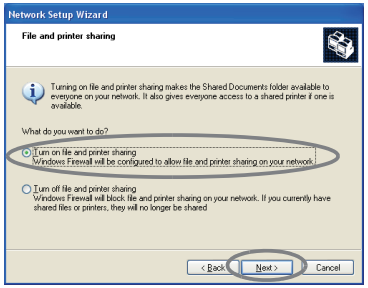
9 Confirm that the workgroup name has been input, then click the Next button.

If the workgroup name has not been input, input “DEVELOPMENT”.

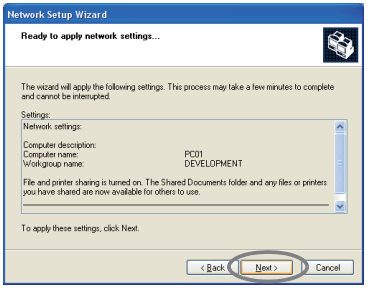
The workgroup name needs to be the same as that of the device to be connected.



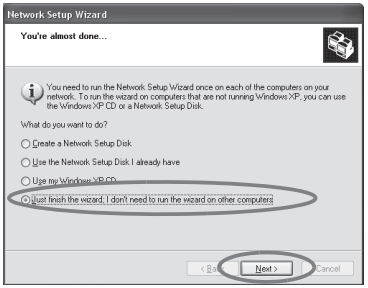
10 Select “Turn on file and printer sharing”, then click the Next button.



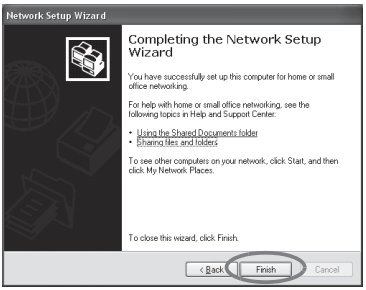
11 Confirm the settings, then click the Next button.



12 Select “Just finish the wizard; I don't need to run the wizard on other computers”, then click the Next button.



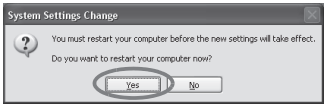
13 Click the Finish button.



14 Click the Yes button.

The computer automatically restarts.

If the computer does not automatically restart, manually restart the computer.

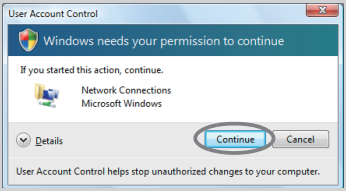


3.3 Network Setting (Windows Vista)

3.3.1 Network setting (Windows Vista)

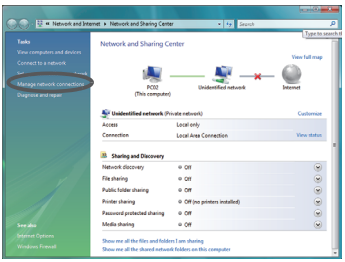
Note

- When buttons or icons with "" is operated, the User Account Control dialog box appears. In such a case, click the Continue button to continue the operation.



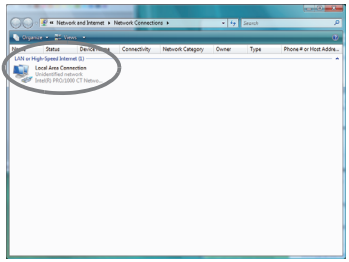
1 Click "Start", right-click "Network", then click "Properties".

The "Network and Sharing Center" window appears.



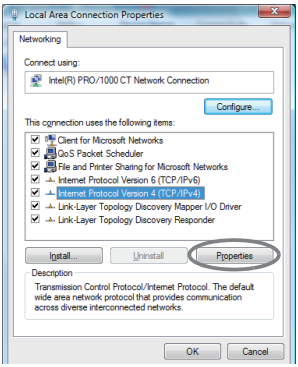
2 Click "Manage network connections" from "Tasks" shown along far left of the window.

The "Network connections" window appears.



3 Right-click “Local Area Connection” and click “Properties”.

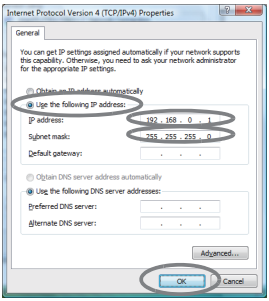
4 Click “Internet Protocol Version 4 (TCP/IPv4)” in “This connection uses the following items”, then click the Properties button.



5 Select “Use the following IP address”.

6 In the IP address box, input “192.168.0.xxx”.

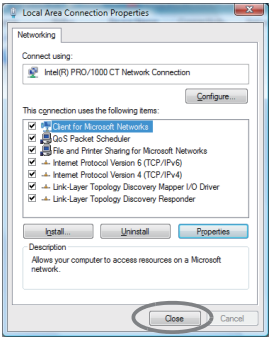
In xxx, enter any number from 1 to 254 that is not being used for the device to be connected.



7 Input “255.255.255.0” in the Subnet Mask box.

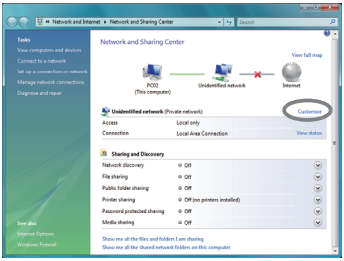
8 Click the OK button.

9 Click the Close button.



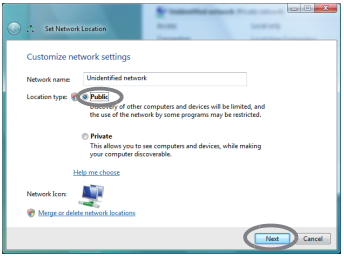
10 Close the Network Connections window.

11 Click “Customize” in the “Network and Sharing Center” window.

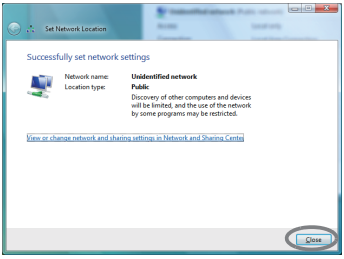


12 Select “Public” for “Location type”.

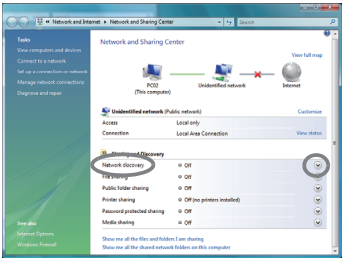
13 Click the Next button.



14 Click the Close button.



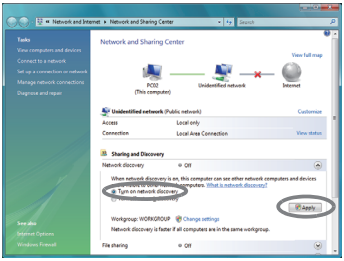
The “Network and Sharing Center” window is displayed.



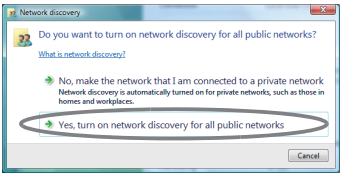
15 If “Network discovery” of “Sharing and Discovery” is disabled, enable it.

1) Click the button shown to the right of “Network discovery”.

2) Select “Turn on network discovery”, then click the Apply button.



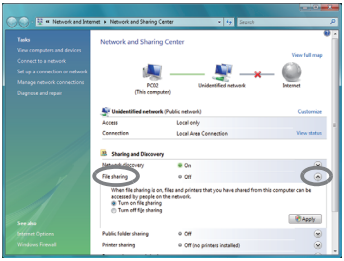
3) When the message shown to the right appears, click “Yes, turn on network discovery for all public networks”.



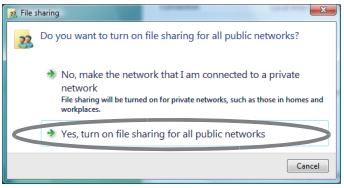
16 If “File sharing” is disabled, enable it.

1) Click the button shown to the right of “File sharing”.

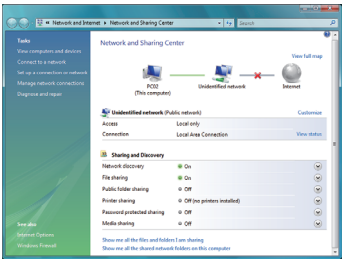
2) Select “Turn on file sharing”, then click the Apply button.



3) When the message shown to the right appears, click “Yes, turn on file sharing for all public networks”.



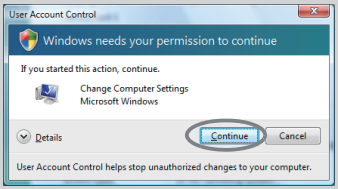
17 Close the “Network and Sharing Center” window.



3.3.2 Computer name and workgroup setting (Windows Vista)

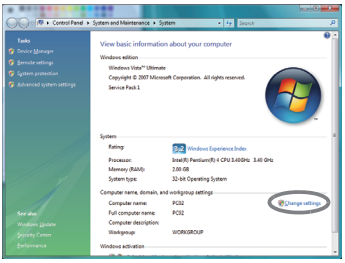
Note

- When buttons or icons with "" is operated, the User Account Control dialog box appears. In such a case, click the Continue button to continue the operation.



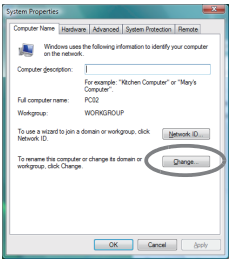
1 Click "Start", right-click "Computer", then click "Properties".

The System window appears.



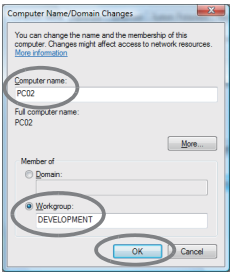
2 Click "Change settings" in "Computer name, domain, and workgroup settings".

The System Properties dialog box appears.



3 Click "Change" button.

The "Computer Name/Domain Changes" window appears.



4 Check the computer name. If it has not been input, input "PC02" (or the desired name).

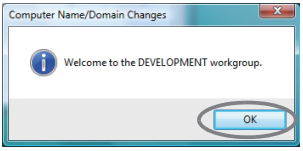
If the same computer name is used for another computer, change the computer name.

5 Select "Workgroup" of "Member of", then input "DEVELOPMENT".

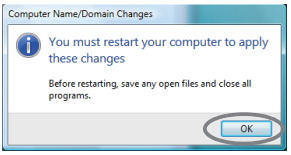
The workgroup name needs to be the same as that of the device to be connected.

6 Click the OK button.

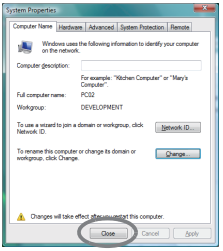
7 The message shown to the right appears. Click the OK button. (Only when the settings has been changed in Step 5)



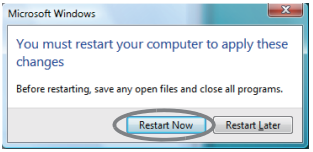
8 The message shown to the right appears. Click the OK button.



9 Click the Close button to close the System Properties window.

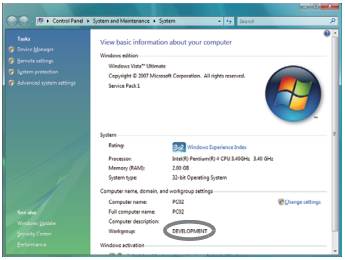


10 A dialog box appears to ask whether or not to restart the computer. Click “Restart Now”.



11 After the restart, click “Start”, right-click “Computer”, and click “Properties”.

The System screen appears.



12 Confirm that the workgroup specified in Step 5 is displayed to the right of “Workgroup:”.

13 Click “Start”, then “Network”.

The Network screen appears.

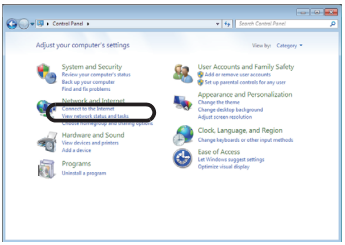
14 Confirm that the names of the connected computers are displayed.

3.4 Network Setting (Windows 7)

3.4.1 Network setting (Windows 7)

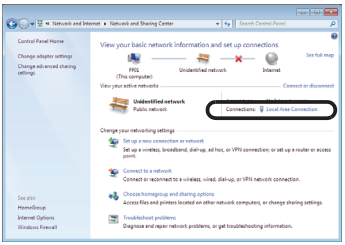
1 Click “Start”, then “Control Panel”.

The Control window appears.



2 Click “View network status and tasks”.

The “Network connections” window appears.

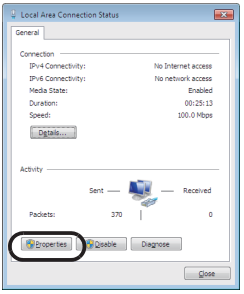


3 Click “Local Area Connection”.

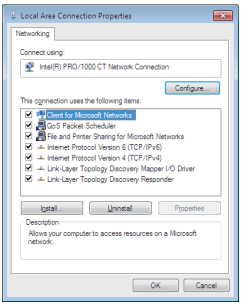
The Local Area Connection Status window appears.

4 Click “Properties”.

The Local Area Connection Properties window appears.



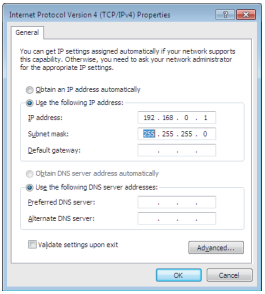
5 Click “Internet Protocol Version 4 (TCP/IPv4)” in “This connection uses the following items”, then click the Properties button.



6 Select “Use the following IP address”.

7 In the IP address box, input “192.168.0.xxx”.

In xxx, enter any number from 1 to 254 that is not being used for the device to be connected.

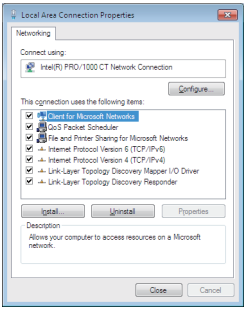


8 Input “255.255.255.0” in the Subnet Mask box.

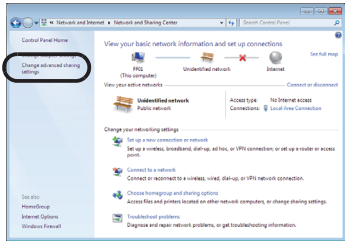
9 Click the OK button.

10 Click the Close button to close the Local Area Connection Properties window.

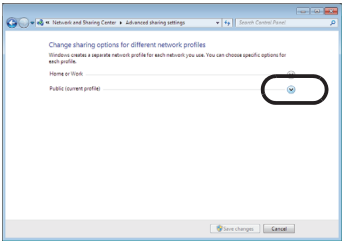
11 Click the Close button to close the Local Area Connection Status window.



12 Click “Change advanced sharing settings” in the “Network and Sharing Center” window.



13 If “Public” is not expanded in the Advanced sharing settings window, click the ⌄ button.

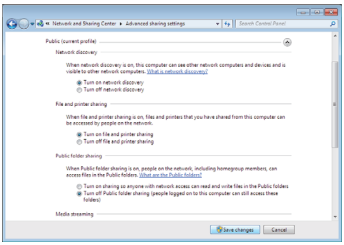


14 Select “Turn on network discovery” for the “Network discovery” setting.

15 Select “Turn on file and printer sharing” for the “File and printer sharing” setting.

16 Click the “Save changes” button.

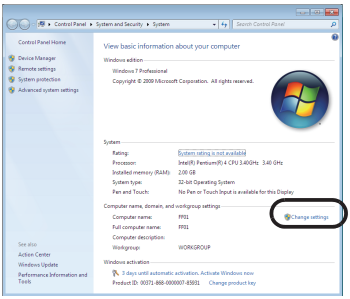
17 Close the “Network and Sharing Center” window.



3.4.2 Computer name and workgroup setting (Windows 7)

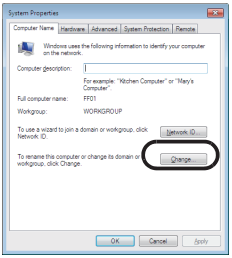
1 Click “Start”, right-click “Computer”, then click “Properties”.

The System window appears.



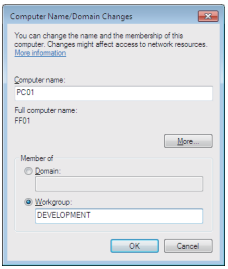
2 Click “Change settings” in “Computer name, domain, and workgroup settings”.

The System Properties dialog box appears.



3 Click “Change” button.

The “Computer Name/Domain Changes” window appears.



4 Check the computer name. If it has not been input, input “PC01” (or the desired name).

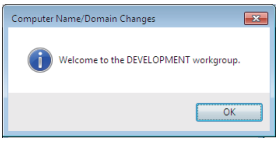
If the same computer name is used for another computer, change the computer name.

5 Select “Workgroup” of “Member of”, then input “DEVELOPMENT”.

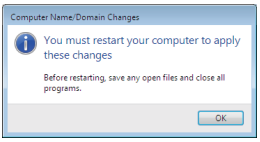
The workgroup name needs to be the same as that of the device to be connected.

6 Click the OK button.

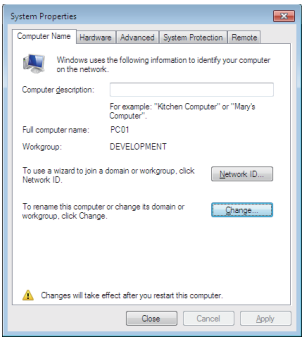
7 The message shown to the right appears. Click the OK button. (Only when the settings has been changed in Step 5)



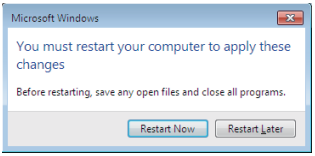
8 The message shown to the right appears. Click the OK button.



9 Click the Close button to close the System Properties window.

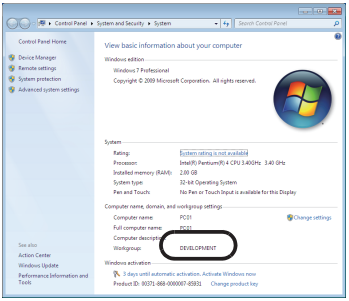


10 A dialog box appears to ask whether or not to restart the computer. Click “Restart Now”.



11 After the restart, click “Start”, right-click “Computer”, and click “Properties”.

The System screen appears.



12 Confirm that the workgroup specified in Step 5 is displayed to the right of “Workgroup:”.

13 Click “Start”, then “Computer”.

14 Click “Network”.

The Network screen appears.

15 Confirm that the names of the connected computers are displayed in the Network screen.

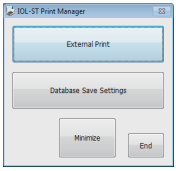
3.5 Setting IOL-ST Print Manager

3.5.1 Setting the print function using external printer

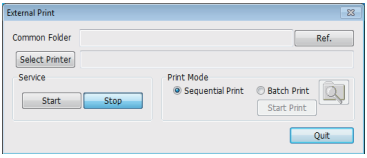
Select the shared folder where the print data is stored, printer, and print mode.

1 Double-click the  icon in the task tray at the bottom right of the Windows screen to display the IOL-ST Print Manager screen.

When the icon  is not displayed in the task tray, page 2.

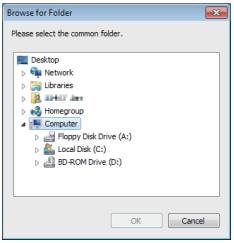


2 Click the External Print button to open the External Print window.

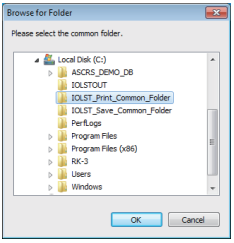


3 Click the Ref. button to display the Browse for Folder window.

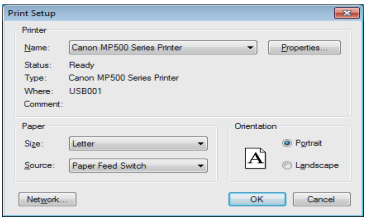
When the Ref. button is disabled, click the Stop button.



4 Specify the shared folder where the print data is stored and click the OK button.



5 Click the Select Printer button to display the Print Setup window.



6 Select the desired printer from the drop-down list displayed by clicking the button and click the OK button.

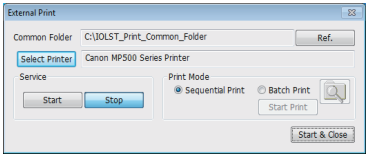
Note

- Do not select a shared printer.

 A shared printer is one directly connected to a PC that is connected with other PCs over a LAN. Printing cannot be performed on a shared printer by those PCs to which the shared printer is not directly connected.

3

7 Select Print Mode.



Sequential Print:

Printing is automatically performed after a JPEG file is saved to the print data shared folder and immediately transferred to the work folder. Printed JPEG files are automatically deleted from the folder.

Batch Print:

Printing is performed for multiple sets of data. When a JPEG file is saved to the print data shared folder, the file is moved to a work folder. When the Start Print button is clicked, all JPEG files stored in the work folder are printed out. Printed files are automatically deleted from the folder.

8 Click the Start button.

9 Click the Close button to close the External Print window.

10 Click the Minimize button to close IOL-ST Print Manager.